



## 4 Way Broadband Combiner from 80 MHz to 1 GHz Type N

### RF Combiners Technical Data Sheet

PE20S0006

#### Features

- 80 to 1000 MHz Frequency
- 500 watt max power
- Insertion Loss: < 0.75 dB
- Phase Balance:  $\pm 5$  degrees
- Amplitude Balance:  $\pm 0.25$  dB
- Isolation: >12 dB
- High Power Handling Capability

#### Applications

- Communications Systems
- Power Combining
- PCS,GSM,LTE, Cellular
- Amplifier Systems
- Amplifier Power Combining
- Wireless Infrastructures
- Defence Applications

#### Description

PE20S0006 is a passive 4 way High Power Broadband RF Combiner with 50 ohm N connectors operating from 80 to 1000 MHz, with max power at 500 watts. The PE20S0006 has greater than 12 dB typical isolation, less than 0.75 dB typical low insertion loss and a Max VSWR of 1.30:1; along with a phase balance of  $\pm 5$  degrees and an amplitude balance of  $\pm 0.25$  dB. The RF Combiner operates in a temperature range from -55°C to 85°C, with a foot print of 5.10"x4.72"x1.54".

#### Electrical Specifications

Design: Reactive  
 Number of Input Ports: 4

Description	Minimum	Typical	Maximum	Units
Frequency Range	80		1,000	MHz
Impedance		50		Ohms
Output VSWR			1.3:1	
Insertion Loss			0.75	dB
Isolation	12			dB
Amplitude Balance		$\pm 0.25$		dB
Phase Balance		$\pm 5$		Degrees
Power Handling (CW)			500	Watts

\*\*See Electrical Notes

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	0.08 to 0.125	0.125 to 1				GHz
Isolation, Min	12	15				dB

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [4 Way Broadband Combiner from 80 MHz to 1 GHz Type N PE20S0006](#)



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Electrical Specification Notes:  
The device is intended for coherent signal combining.

#### Mechanical Specifications

##### Size

Length	5.1 in [129.54 mm]
Width	4.72 in [119.89 mm]
Height	1.54 in [39.12 mm]
Weight	2.595 lbs [1.18 kg]

Housing Material and Plating Aluminum Alloy

##### Configuration

Input Connector	N Female
Output Connectors	N Female

#### Environmental Specifications

##### Temperature

Operating Range -55 to +85 deg C

**Compliance Certifications** (see [product page](#) for current document)

#### Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [4 Way Broadband Combiner from 80 MHz to 1 GHz Type N PE20S0006](#)

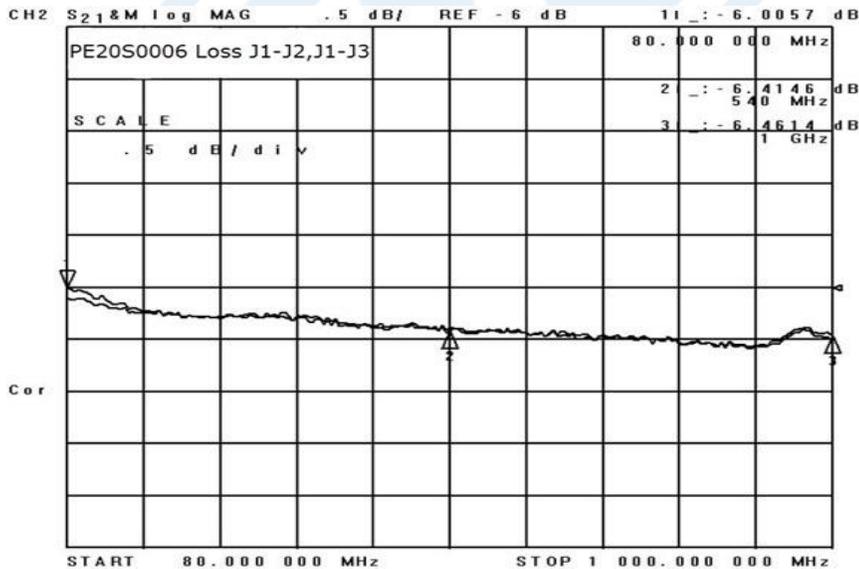
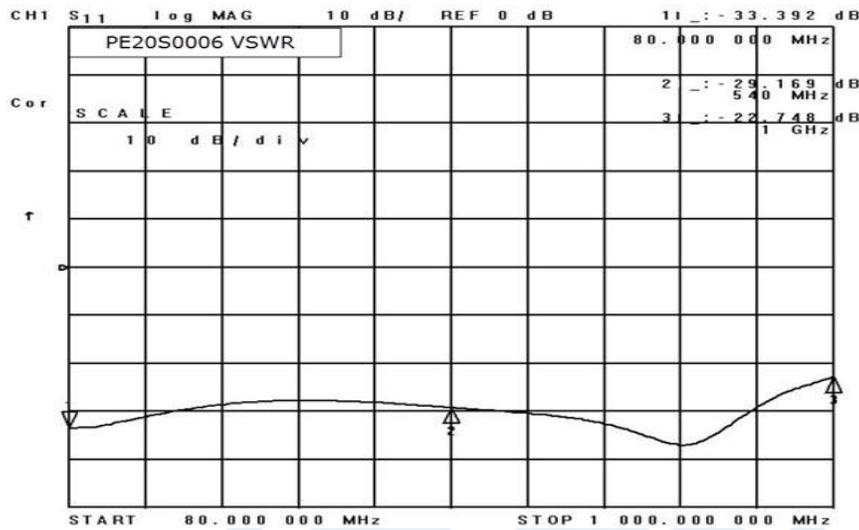


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Typical Performance Data



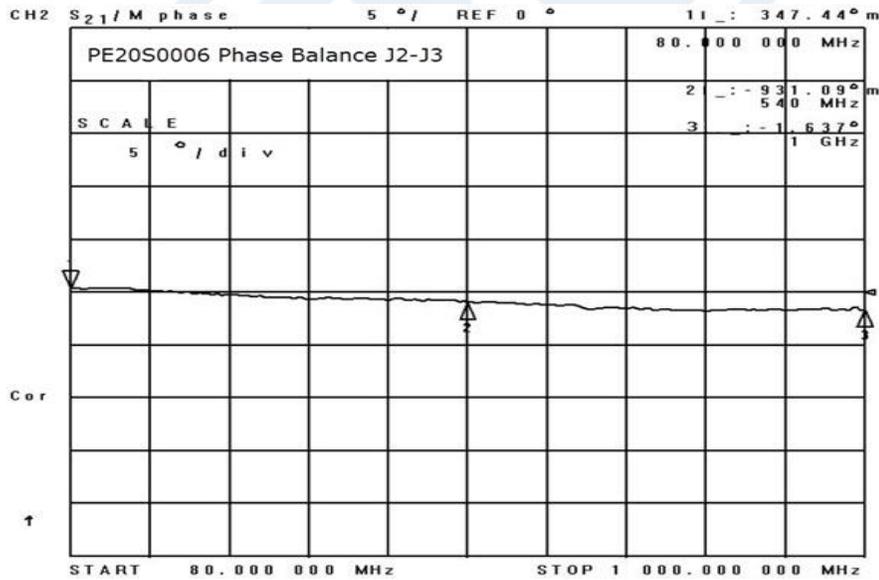
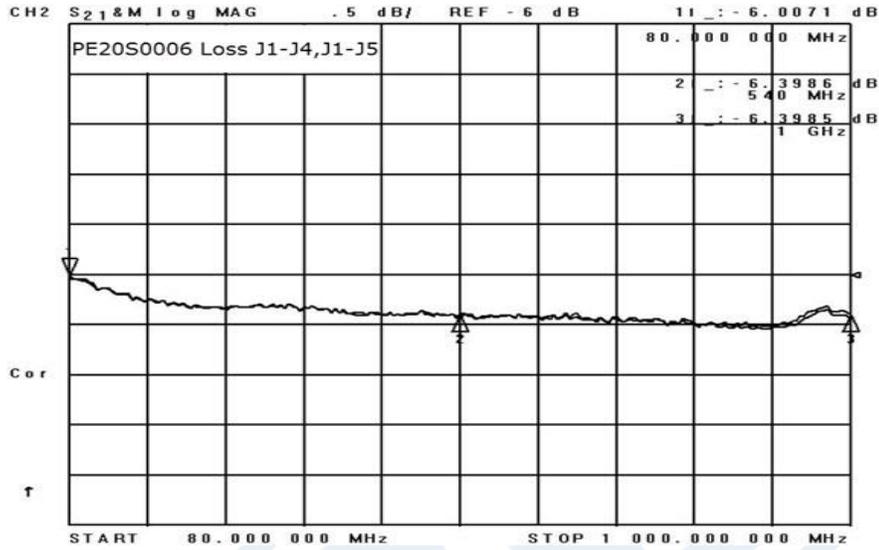
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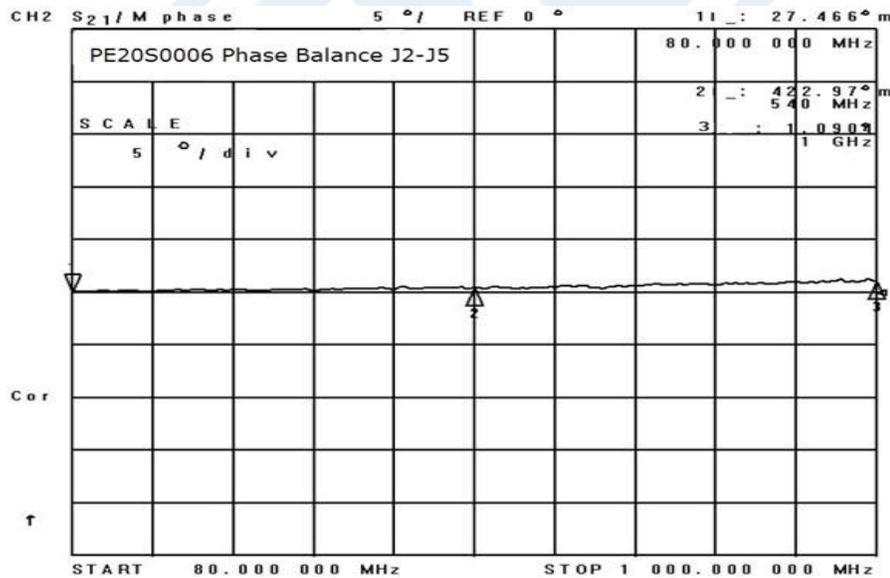
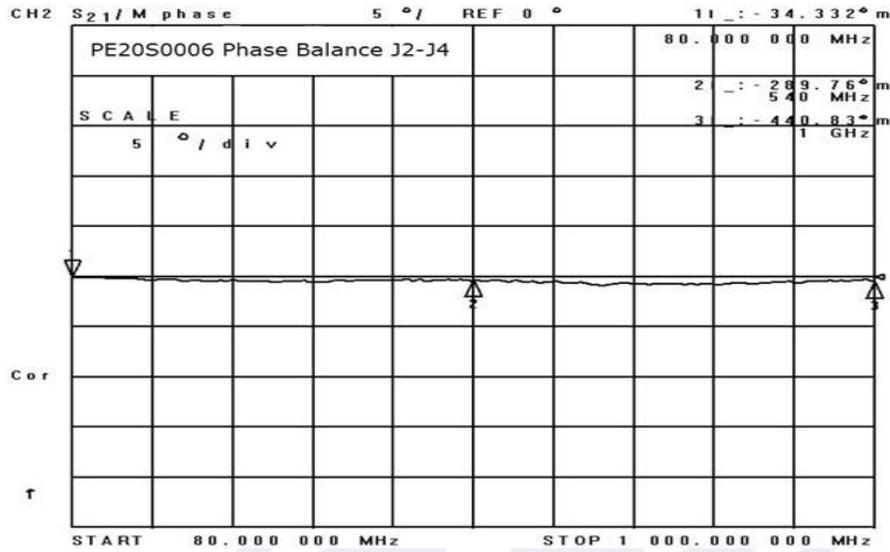
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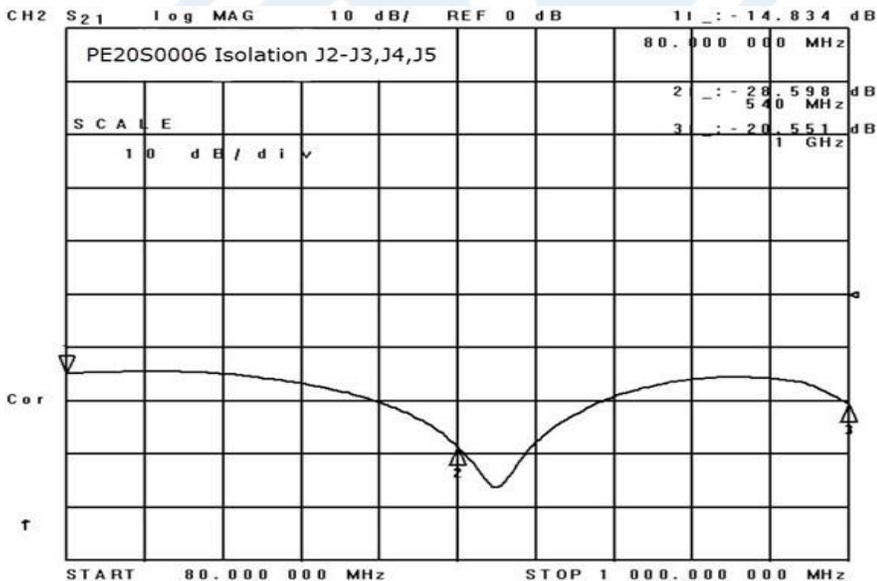
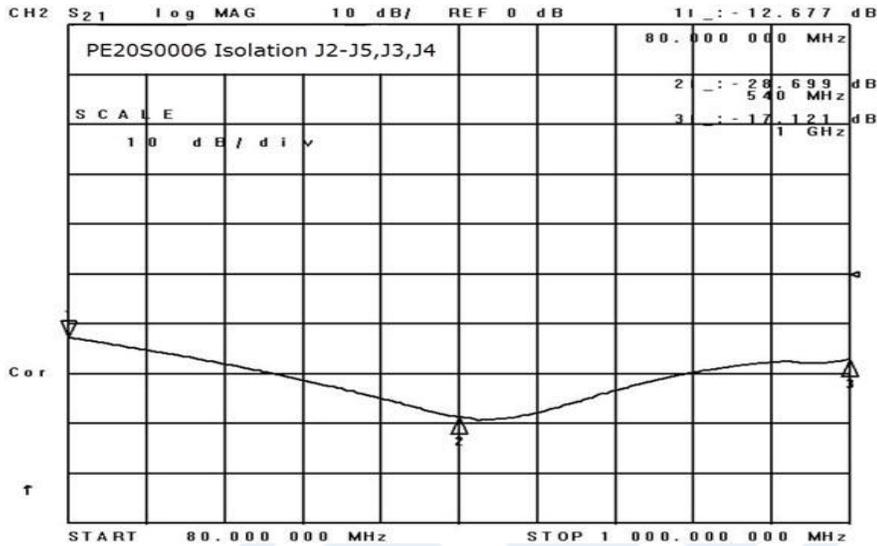
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4 Way Broadband Combiner from 80 MHz to 1 GHz Type N from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

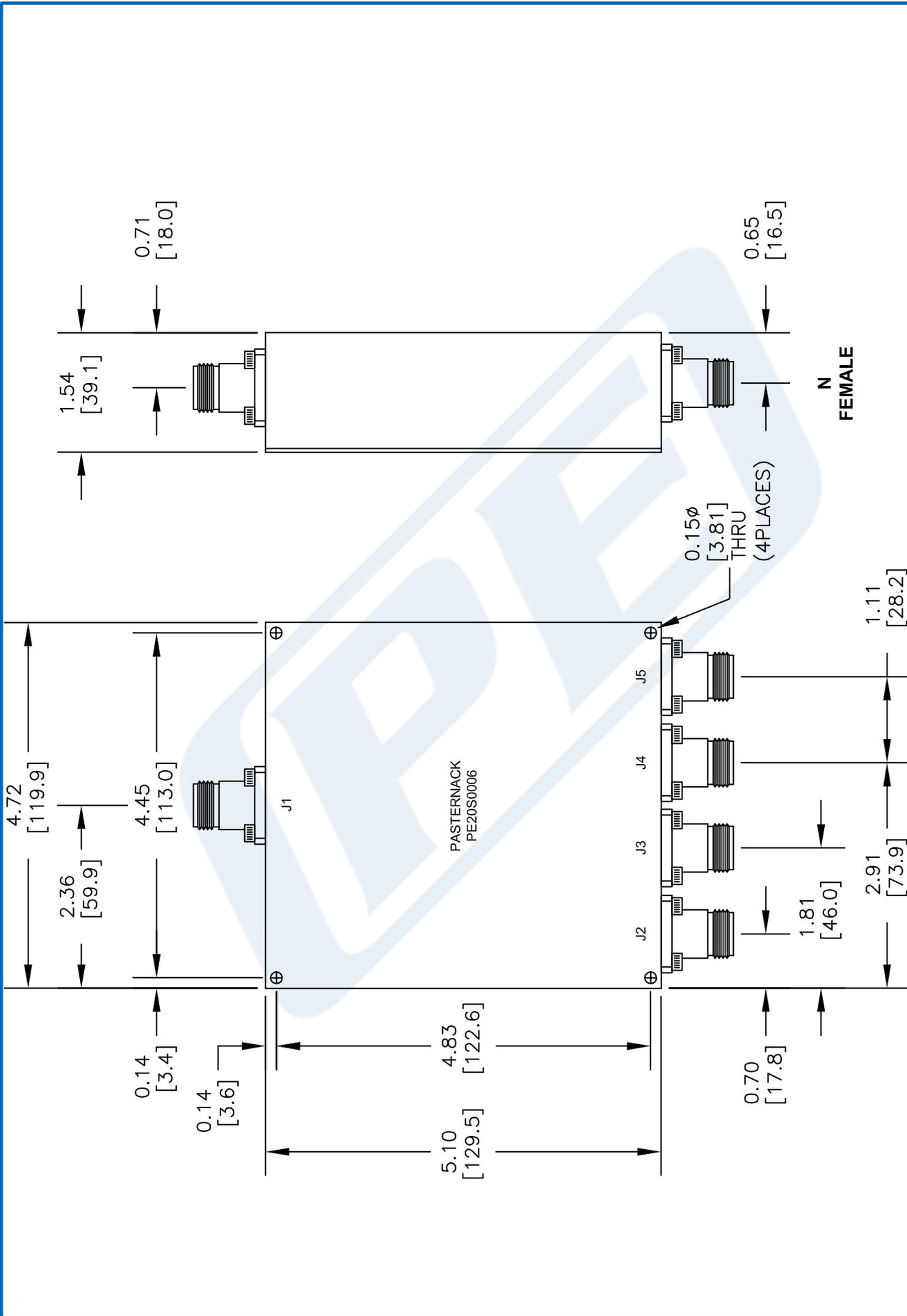
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# PE20S0006 CAD Drawing

4 Way Broadband Combiner from 80 MHz to 1 GHz Type N



NOTES:  
 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.  
 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.  
 3. DIMENSIONS ARE IN INCHES (mm).

DWG TITLE  
**PE20S0006**

FSCM NO. 53919

CAD FILE 071614

SCALE N/A

SIZE A

150

**PE PASTERNAK**  
 THE ENGINEER'S RF SOURCE

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